SETUP OVERVIEW

Download the SOHO Premium ZB645SL Manual at www.zBoost.com

zBoost® SOHO Premium ZB645SL

PACKAGE CONTENTS

zBoost Base Unit

Power Supply

Window Entry Cable

Coax Cable (2) RG-6, 15 ft

Indoor Antenna and TNC-F adaptor

External Antenna

Coax Cable RG-6, 35 ft

External Antenna Mounting Hardware

SETTING UP YOUR zBOOST® SIGNAL BOOSTER

FIRST: Install the External Antenna

Choosing the best location for installation of the External Antenna provides the best performance and the largest area of improved signal. Determine the location which provides the strongest signal using the signal strength indicator on your cell phone. Find the location which provides the most bars of signal strength and place the External Antenna at that location. This location will be typically found on the roof.

The YX699 Signal Meter (available separately) provides signal strength information. It can be used with its supplied whip antenna to find the best location for antenna placement. It can also identify peak antenna alignment when connected directly to antenna using the provided cable.

Caution: Avoid placing antenna near metal such as wiring, A/C ducts, truss plates, etc. When attaching the cable to the antenna, run the cable straight down from the antenna. Avoid draping the coax near the antenna.

When you have determined the location of the strongest signal, install the antenna to a mast or pole (not provided). Loosely secure the External Antenna to the mast to allow the antenna to be reoriented for strongest signal.

Antenna Aiming

To get the maximum benefit, you will want to take special care to make sure you point the antennas in the direction of the best signal for your wireless service provider. See the User Manual for detailed antenna aiming instructions or visit www.zBoost.com/install-tips. You may wish to use a YX699 RF signal meter to help during this process.

SECOND: Install the Base Unit and Indoor Antenna

The Base Unit can be easily mounted on a wall by first removing the bracket from the Base Unit and using the provided mounting hardware to affix to wall. Connect the Indoor Antenna to the 15 feet of RG-6. Then, using the TNC-F Adaptor, connect the RG-6 to the Base Unit. The Base Unit should be a minimum distance of 4-5 feet off from the floor so there is clearance for the Indoor Antenna extension.

The Indoor Antenna should be mounted on a wall facing the direction where increased coverage is desired. Note that signal is broadcast in a beamwidth of 70° horizontally and 60° vertically from the front of the Indoor Antenna. Keep the Indoor Antenna off floor and at least 3 feet away from other cords, metal objects or other wireless devices such as wireless routers or wireless access points. The zBoost performs best when there are no obstructions between the Indoor Antenna and your mobile device. *The FCC requires that this panel antenna has a minimum horizontal separation of 6 feet (2 meters) from other CMRS (commercial mobile radio service) devices.

The zBoost ZB645SL requires at least 15 feet of vertical separation between the Indoor Antenna and the External Antenna. Generally, increasing this distance (up to 40 feet) will increase the performance and decreasing the distance will limit zBoost performance.

THIRD: Run the Coaxial Cable between the External Antenna and the Base Unit

Connect the two provided RG-6 coax cables (35 feet & 15 feet) using the provided window-entry cable. Use the attached cables to connect the Base Unit and External Antenna through a window, positioning the window-entry cable at the window closing. For additional cable setup options, see the User Manual.

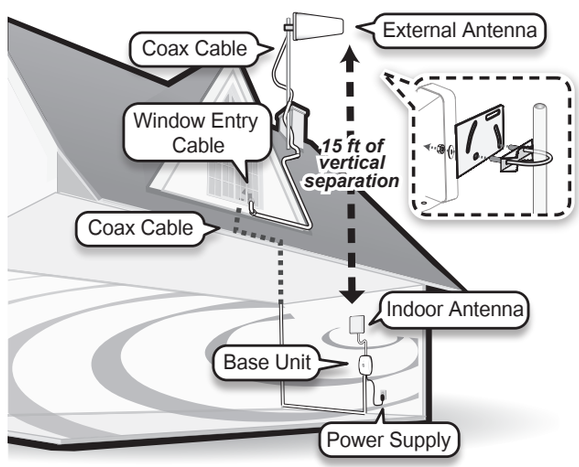
FOURTH: Connect the zBoost Base Unit to the provided power supply and plug into a power outlet

When your zBoost system is in place and fully connected, walk throughout your building and verify that you are able to reliably place calls. If the signal strength has improved, your zBoost is working. Remember, coverage varies based on outdoor signal level, building construction, and antenna placement. Coverage in adjoining rooms (next to, above, or below) will be reduced by walls and ceiling/floors.

Upon initial power up, the LED will cycle RED, GREEN and ORANGE for 30 seconds. After, a series of GREEN flashes will indicate the quality of your setup. Following this, a solid GREEN light indicates normal conditions. If it is not solid GREEN, follow the instructions in the Base Unit LED Indicators section. Adjustments may be needed to optimize performance. If you find the increased signal coverage is acceptable, however, no additional adjustments are needed. increased coverage is desired. instructions in the Base Unit LED Indicators section. Adjustments may be needed to optimize performance. If you find the increased signal coverage is acceptable, however, no additional adjustments are needed.

See LED Indicator section for more information.

Should you desire to improve coverage, you may:



- Relocate the External Antenna to capture a better signal – higher is better.
- Increase the distance between the Indoor Antenna and the External Antenna.
- Purchase an upgrade antenna at www.zBoost.com.

Base Unit LED Indicators

During Initial Power Up

Light Mode	Status	Solution
Cycle RED, GREEN, ORANGE	System is powering up. Please allow up to 30 seconds.	N/A
Flashing GREEN	BASE UNIT will flash GREEN once for every 2 dB less than optimal system gain. Three flashes or less indicates the system will still operate properly.	1. Unplug the BASE UNIT power supply. 2. Relocate the EXTERNAL ANTENNA to pick up the strongest signal from your wireless carrier. 3. Move the EXTERNAL ANTENNA as far away from the INDOOR ANTENNA as possible, with at least 15 ft. of vertical separation (height difference). 4. Plug the BASE UNIT power supply back in. 5. Wait 30 secs. for the BASE UNIT to power cycle on. **Solution #1**

After Initial Power Up

Light Mode	Status	Solution
SOLID GREEN	zBoost is ready.	N/A
Flashing GREEN	zBoost is in use.	N/A
SOLID ORANGE	EXTERNAL ANTENNA and INDOOR ANTENNA are too close together.	1. Unplug the BASE UNIT power supply. 2. Move the EXTERNAL ANTENNA as far away from the INDOOR ANTENNA as possible, with at least 15 ft. of vertical separation (height difference). 3. Plug the BASE UNIT power supply back in. 4. Wait 30 secs. for the BASE UNIT to power cycle on. **Solution #2**
SOLID RED	Signal from the carrier's cell tower is too strong for the BASE UNIT to operate properly.	1. Unplug the BASE UNIT power supply. 2. Relocate the EXTERNAL ANTENNA to another spot. 3. If you have a directional antenna re-aim it to reduce carrier signal strength. 4. Plug the BASE UNIT power supply back in. 5. Wait 30 secs. for the BASE UNIT to power cycle on. **Solution #3**
Flashing RED	Excessive electronic noise in the system – the BASE UNIT will not operate.	^ Refer to Solution #2

zBoost SOHO Premium ZB645SL Technical Specifications

	PCS	CEL
Frequency	1850 - 1990 MHz	824 - 894 MHz
System Gain	84 dB	75 dB
Bands Supported	ALL: A,D,B,E,F & C	ALL: A,B, A' & B'
Output Power	Uplink: 19 dBm; Downlink: 4 dBm	Uplink: 21 dBm; Downlink: 4 dBm
Networks Supported	CDMA, GSM, TDMA, GPRS, EDGE, EVDO, HSPA, 3G	
Wall Supply Input; Voltage	100-240VAC 50-60 Hz	
Power Consumption	3W standby; 7W max signal - 2.0A Max	
Input and Output Impedance	TNC Connector: 50 Ohm; F Connector: 75 Ohm	
System Certifications	FCC Parts 15 & 20, Industry Canada	
Base Unit Size and Weight	5" x 7" x 1.25" - 9 oz.	
Base Unit and Power Supply	Indoor Use Only, 40° to 105° F	
Coverage (open areas)	10,000 sq. ft.	
The manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output signal is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.		

This product uses patented technology to protect the carrier network.

FCC Requirement

This is a CONSUMER device.

BEFORE USE, you MUST REGISTER THIS DEVICE with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. AT&T, Sprint, T-Mobile, Verizon and 90 additional carriers have already given consent for all consumers to use this device. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

You MUST operate this device with approved antennas and cables as specified by the manufacturer. Antennas MUST be installed at least 20 cm (8 inches) from any person.

You MUST cease operating this device immediately if requested by the FCC or a licensed wireless service provider.

WARNING. E911 location information may not be provided or may be inaccurate for calls served by using this device.

FCC contact information: www.fcc.gov/signal-boosters/registration.

FCC Information

FCC ID: SO4ZB570-PCS-CEL

Warning: Changes or modifications to this device not expressly approved by zBoost could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element (antenna) shall be installed such that a minimum separation distance of 20cm (8in) is maintained from all persons.

Industry Canada Regulations

Canada IC: 5544A-ZB570PCSCEL

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

RF Exposure:
The manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.

Please note: This unit has been approved for use in Canada under RSS 131, however, consent for the use of this device to improve cellular or PCS coverage, must be obtained through your cellular or PCS provider, prior to placing the unit in operation. Please refer to the Industry Canada document CPC 2-1-05, Section 6.1 available or viewable at: http://www.ic.gc.ca/epic/site/smt-gst.nsf/en/sf08942e.html

Cet appareillage numérique de la classe [B] répond à toutes les exigences de l'interférence canadienne causant des règlements d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

Le fabricant nominale de la puissance de sortie de ce matériel est simple transporteur. Pour les situations lorsque plusieurs signaux porteurs sont présents, l'évaluation devrait être réduite de 3.5 dB, en particulier lorsque le signal de sortie est ré-émise et peut provoquer des interférences adjacentes à la bande utilisateurs. Ce pouvoir est de la réduction par le biais de la sortie d'alimentation ou la réduction de gain et non par un atténuateur à la sortie du dispositif.

Warranty Information

LIMITED 1 YEAR MANUFACTURER WARRANTY | WARRANTY REGISTRATION AT WWW.ZBOOST.COM

zBoost warrants every zBoost product to be free from defects in material and workmanship under normal use for the warranty period of 1 year.

Who Is Covered?

You must have proof of purchase to receive warranty service. A sales receipt or other documentation showing the product purchased and the purchase date is considered proof of purchase. This limited warranty extends only to the original consumer purchaser or any person receiving the product as a gift from the original consumer purchaser and to no other purchaser or transferee.

What is Covered?

Warranty coverage begins the day you purchase the product. For one year from the original date, the zBoost Cell Phone Signal Booster will be repaired or replaced with a new, repaired, refurbished or comparable product (whichever is deemed necessary by zBoost) if it becomes defective or inoperative. The exchange will be made without charge to you for parts and labor. You will be responsible for the cost of shipping to the location designated by zBoost. If zBoost cannot reasonably repair or replace the unit then zBoost may, at its sole discretion, refund the price you paid for the product or the price of the unit. All products, including replacement products, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on the replacement product also expires.

What is Excluded?

Your warranty does NOT cover:

- Labor charges for set up of the unit.
- Product replacement because of misuse, accident, lightning damage, unauthorized repair or other cause not within the control of zBoost.
- Incidental or consequential damages resulting from the product. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.
- Any modifications or other changes to the product, including but not limited to software or hardware modifications in any way other than as expressly authorized by zBoost will void this limited warranty.
- Product that has been modified or adapted to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.

All zBoost products that are packaged with other zBoost accessory products are intended for resale and use as a single unit, and such product kits are required to be sold to the end user or subsequent reseller as packaged. The "de-kitting" and sale as a standalone product of any one or more components of such a product kit is in violation of zBoost' warranty. No "de-kitted" product will be eligible for return for any reason. The sale of separate, not-kitted cable, antennas and other accessories is allowed and fully warranted

Make sure you keep…

Please keep your sales receipt or other document showing proof of purchase. Attach it to this Setup Overview and keep both nearby. Also, keep the original box and packing material in case you need to return your product.

Before requesting repair service…

Please see the BASE UNIT LED INDICATORS section listed in this overview for troubleshooting.

To get warranty service…

Warranty service will be provided by zBoost. If you need service for your unit, contact us at 1-877-594-5766 or support@zBoost.com. A representative will go through a diagnostic checklist with you. If the product needs to be returned for service or exchanged, you will receive a return merchandise authorization (RMA) number. The representative will give you complete shipping details. Please do not return products to zBoost without an RMA.

To get out of warranty service…

To obtain out of warranty service, contact zBoost at 1-877-594-5766 or support@zBoost.com for information on the possibility of any costs for repair or replacement of out-of-warranty products.

Reminder: Record the model and serial number found on the product:

Model #: _____

Serial #: _____

Purchase Date: _____

Customer Support

The complete zBoost SOHO Premium ZB645SL Manual and additional product information is available at www.zBoost.com.

For questions or assistance, contact zBoost Customer Care at 1-877-594-5766 or email Support@zBoost.com.